

|   |  |  |                              |                                 |  |
|---|--|--|------------------------------|---------------------------------|--|
| <b>PTO-1449</b><br><b>Information Disclosure Citation<br/>In an Application</b> |  | Application No.                                  |                              | Applicant(s)<br>Shilin Chen     |  |
|   |  | Docket Number<br>074263.0209<br>(SC-98-025 C3-E) | Group Art Unit<br>Unassigned | Filing Date<br>January 27, 2004 |  |

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|  | B | 2,117,679    | 05/17/1938 | C.E. Reed         | 255   | 71       | 12/27/1935  |
|  | C | 2,122,759    | 07/05/1938 | F.L. Scott        | 255   | 71       | 07/16/1936  |
|  | D | 2,132,498    | 10/11/1938 | H.C. Smith        | 255   | 71       | 07/22/1936  |
|  | E | 2,165,584    | 07/11/1939 | H.C. Smith et al. | 255   | 71       | 07/22/1936  |
|  | F | 2,230,569    | 02/04/1941 | J.H. Howard et al | 255   | 71       | 12/20/1939  |
|  | G | 2,496,421    | 02/07/1950 | J.C. Stokes       | 255   | 71       | 05/07/1946  |
|  | H | 2,728,559    | 12/27/1955 | E.G. Boice et al. | 255   | 334      | 12/10/1951  |
|  | I | 2,851,253    | 09/09/1958 | E.G. Boice        | 255   | 347      | 04/27/1954  |
|  | J | 4,187,922    | 02/12/1980 | Phelps            | 175   | 374      | 05/12/1978  |
|  | K | 4,334,586    | 06/15/1982 | Schumacher        | 175   | 374      | 06/05/1980  |
|  | L | 4,343,371    | 08/10/1982 | Baker III, et al  | 175   | 329      | 04/28/1980  |
|  | M | 4,393,948    | 07/19/1983 | Fernandez         | 175   | 374      | 04/01/1981  |
|  | N | 4,408,671    | 10/11/1983 | Munson            | 175   | 377      | 02/19/1982  |
|  | O | 4,427,081    | 01/24/1984 | Crawford          | 175   | 376      | 01/19/1982  |
|  | P | 4,611,673    | 09/16/1986 | Childers et al    | 175   | 340      | 11/21/1983  |
|  | Q | 4,657,093    | 04/14/1987 | Schumacher        | 175   | 353      | 02/03/1982  |

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|  | R | SU 1768745 A1 | 10/15/1992 | SU      | E 21 B | 10/16    | X           |    |
|  | S | SU 1441051 A2 | 11/30/1988 | SU      | E 21 B | 10/16    | X           |    |
|  | T | EP 0511547 A2 | 04/14/1992 | EPO     | E 21 B | 10/16    | X           |    |
|  | U | EP 0511547 A3 | 04/14/1992 | EPO     | E 21 B | 10/16    | X           |    |
|  | V | EP 0511547 B1 | 04/14/1992 | EPO     | E 21 B | 10/16    | X           |    |

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|   | Docket Number<br>074263.0209<br>(SC-98-025 C3-E) | Group Art Unit<br>Unassigned | Shilin Chen  |  |

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|            | X  | 4,848,476    | 07/18/1989 | Deane et al       | 175   | 340      | 02/29/1988  |
|            | Y  | 5,137,097    | 08/11/1992 | Fernandez         | 175   | 228      | 10/30/1990  |
|            | Z  | 5,197,555    | 03/30/1993 | Estes             | 175   | 374      | 05/22/1991  |
|            | AA | 5,224,560    | 07/06/1993 | Fernandez         | 175   | 374      | 05/18/1992  |
|            | AB | 5,311,958    | 05/17/1994 | Isbell et al      | 175   | 341      | 09/23/1992  |
|            | AC | 5,318,136    | 06/07/1994 | Rowsell et al     | 175   | 24       | 03/06/1991  |
|            | AD | 5,341,890    | 08/30/1994 | Cowthorne et al   | 175   | 374      | 01/08/1993  |
|            | AE | 5,370,234    | 12/06/1994 | Sommer, Jr. et al | 209   | 44.1     | 11/08/1991  |
|            | AF | 5,372,210    | 12/13/1994 | Harrell           | 175   | 431      | 10/12/1993  |
|            | AG | 5,394,952    | 03/07/1995 | Johns et al       | 175   | 332      | 08/24/1993  |
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|            | AI | 5,416,697    | 05/16/1995 | Goodman           | 364   | 422      | 07/31/1992  |
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|            |    |              |            |         |       |          | YES      NO |
| <i>Zhu</i> | AL | GB 2241266 A | 08/28/1991 | GB      | E21B  | 10/46    | X           |

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|            | AN | D. Ma, D. Zhou & R. Deng, <i>The Computer Stimulation of the Interaction Between Roller Bit and Rock</i> , (1995) |  |
|            | AO | Shilin Chen, <i>Linear and Nonlinear Dynamics of Drillstrings</i> , (1994-1995)                                   |  |
|            | AP | D. Ma, & J.J. Azar, <i>Dynamics of Roller Cone Bits</i> , (12/1985)   |  |
|            | AQ | D.K.Ma & S.L. Yang, <i>Kinematics of the Cone Bit</i> , (06/1985)   |  |
|            | AR | Dma & J.J. Azar, <i>A New Way to Characterize the Gouging-Scraping Action of Roller Cone Bits</i> , (1989)        |  |
|            | AS | Russian bit catalog listing items "III 190,5 T-ЛВ-1" and "III 109,5 TKZ-ЛВ", (prior 1997)                         |  |
|            | AT | L.E. Hibbs, Jr., et al, <i>Diamond Compact Cutter Studies for Geothermal Bit Design</i> , (Nov. 1978)             |  |

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| <b>PTO-1449</b><br><br><b>Information Disclosure Citation<br/>In an Application</b> |  | Application No.  |                                     | Applicant(s) |  |
|   |  | Docket Number<br><b>074263.0209</b><br><b>(SC-98-025 C3-E)</b> | Group Art Unit<br><b>Unassigned</b> | Shilin Chen  | Filing Date<br><b>January 27, 2004</b> |

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| BWS | AV | 5,730,234    | 03/24/1998 | Putot               | 175   | 50       | 05/14/1996  |
|     | AW | 5,794,720    | 08/18/1998 | Smith et al         | 175   | 40       | 03/25/1996  |
|     | AX | 5,812,068    | 09/22/1998 | Wisler et al        | 340   | 855.5    | 12/12/1995  |
|     | AY | 5,813,480    | 09/29/1998 | Zaleski, Jr., et al | 175   | 40       | 12/03/1996  |
|     | AZ | 5,813,485    | 09/29/1998 | Portwood            | 175   | 430      | 06/21/1996  |
|     | BA | 5,839,526    | 11/24/1998 | Cisneros, et al.    | 175   | 431      | 04/04/1997  |
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|     | BC | 6,012,015    | 01/04/2000 | Tubel               | 702   | 6        | 09/18/1997  |
|     | BD | 6,021,377    | 02/01/2000 | Dubinsky et al      | 702   | 9        | 10/23/1996  |
|     | BE | 6,044,325    | 03/28/2000 | Chakravarthy et al  | 702   | 7        | 07/21/1998  |
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|     | BG | 6,095,262    | 08/01/2000 | Chen                | 175   | 57       | 08/31/1999  |
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|     | BI | 6,213,225    | 04/10/2001 | Chen                | 175   | 57       | 08/31/1999  |
|     | BJ | 6,241,034    | 06/01/2001 | Steinke et al       | 175   | 331      | 09/03/1998  |
| ✓   | BK | 6,401,839    | 06/01/2002 | Chen                | 175   | 57       | 03/10/2000  |

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|  | BL |              |      |         |       |          |             |
|  | BM |              |      |         |       |          |             |

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| BWS | BO | J. P. Nguyen, "Oil and Gas Field Development Techniques: Drilling" (translation 1996, from French original 1993)    |  |

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|  |  |                                 |                |                  |  |
|--|--|---------------------------------|----------------|------------------|--|
| <b>PTO-1449</b>  |  | Application No.                 |                | Applicant(s)     |  |
| <b>Information Disclosure Citation<br/>In an Application</b> |  | 074263.0209<br>(SC-98-025 C3-E) |                | Shilin Chen      |  |
|  |  | Docket Number                   | Group Art Unit | Filing Date      |  |
|  |  |                                 | Unassigned     | January 27, 2004 |  |

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| <i>Zw</i> | BP | 6,412,577    | 07/02/2002 | Chen        | 175   | 57       | 08/01/2000  |
| <i>BW</i> | BQ | 6,527,068    | 03/01/2003 | Singh et al | 175   | 431      | 08/16/2000  |
|           | BR |              |            |             |       |          |             |

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|--|----|--------------|------|---------|-------|----------|-------------|
|  |    |              |      |         |       |          | YES         |
|  | BS |              |      |         |       |          |             |

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|           |    |   | DATE       |
|-----------|----|---|------------|
| <i>Zh</i> | BT | Plaintiff's Original Complaint for Patent Infringement and Jury Demand, filed September 6, 2002 in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, <i>Halliburton Energy Services, Inc. v. Smith International, Inc.</i> , 4 pages                            | 09/06/2002 |
|           | BU | Answer and Counterclaim of Smith International, filed March 14, 2003, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, <i>Halliburton Energy Services, Inc. v. Smith International, Inc.</i> , 6 pages  | 03/14/2003 |
|           | BV | Response of Plaintiff and Counterclaim Defendant to Defendant's Counterclaim of Declaratory Judgment, filed April 3, 2003, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, <i>Halliburton Energy Services, Inc. v. Smith International, Inc.</i> , 3 pages | 04/03/2003 |
|           | BW | First Amended Answer and Counterclaim of Smith International, filed October 9, 2003, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, <i>Halliburton Energy Services, Inc. v. Smith International, Inc.</i> , 8 pages                                       | 10/09/2003 |

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| BY | "Drilling Mud", part of Rotary Drilling Series, edited by Charles Kirkley (1984)  |  |
| BZ | H.G. Benson, "Rock Bit Design, Selection and Evaluation", presented at the spring meeting of the pacific coast district, American Petroleum Institute, Division of Production, Los Angeles, May, 1956 |  |
| CA | J.C. Estes, "Selecting the Proper Rotary Rock Bit", Journal of Petroleum Technology, Nov., 1971, pp1359-1367  |  |
| CB | Sikarskie, et. al., "Penetration Problems in Rock Mechanics", American Society of Mechanical Engineers, Rock Mechanics Symposium, 1973  |  |
| CC | Dykstra, et. al., "Experimental Evaluations of Drill String Dynamics", Amoco Report Number SPE 28323, 1994  |  |
| CD | Kenner and Isbell, "Dynamic Analysis Reveals Stability of Roller Cone Rock Bits", SPE 28314, 1994   |  |
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*M. Hall*  
3/31/05

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| <b>PTO-1449</b><br><b>Information Disclosure Citation</b><br>O P Q An Application<br>SEP 08 2004 |  | Application No.<br><b>10/765,695</b>                    |                               | Applicant(s)<br><b>Shilin Chen</b>  |  |
|  |  | Docket Number<br><b>074263.0209</b><br>(SC-98-025 C3-E) | Group Art Unit<br><b>3672</b> | Filing Date<br><b>Jan. 27, 2004</b> |  |

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|           | B | 1,263,802    | 04/23/1918 | Reed            | --    | --       | 08/13/1917  |
|           | C | 1,394,769    | 10/25/1921 | Sorensen        | --    | --       | 05/18/1920  |
|           | D | 4,056,153    | 11/01/1977 | Miglierini      | 175   | 376      | 07/16/1977  |
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|           | F | 5,010,789    | 04/30/1991 | Brett et al.    | 76    | 108.2    | 10/06/1989  |
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|           | H | 5,131,478    | 07/21/1992 | Brett et al.    | 175   | 57       | 06/10/1990  |
|           | I | 5,216,917    | 06/08/1993 | Detournay       | 73    | 151      | 07/11/1991  |
|           | J | RE 34,435    | 11/09/1993 | Warren et al    | 175   | 398      | 03/11/1992  |
|           | K | 5,305,836    | 04/26/1994 | Holbrook et al. | 175   | 39       | 04/08/1992  |
|           | L | 5,456,141    | 10/10/1995 | Ho              | 76    | 108.2    | 11/12/1993  |
|           | M | 5,605,198    | 02/25/1997 | Tibbitts et al. | 175   | 432      | 04/28/1995  |
|           | N | 5,767,399    | 06/16/1998 | Smith et al.    | 73    | 152.11   | 03/25/1996  |
|           | O | 6,142,247    | 11/07/2000 | Pessier         | 175   | 340      | 07/19/1996  |
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|           | R            | 1691497 A1 | 05/30/1988 | SU    | E 21 B   | 10/16       | X  |
|           | S            | 0384734 A1 | 08/29/1990 | EPO   | E 21 B   | 10/46       | X  |
|           | T            | 2367578 A  | 04/10/2002 | GB    | E 21 B   | 10/56       | X  |
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|      | C 6,516,293       | 02/04/2003 | Huang et al.   | 703   | 10       | 03/13/2000  |
|      | D 6,533,051       | 03/18/2003 | Singh et al.   | 175   | 371      | 09/07/1999  |
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|      | F 2004/0104053 A1 | 06/03/2004 | Chen           | 175   | 341      | 03/08/2003  |
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|      | H                 |            |                |       |          |             |
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|      | N Wilson C. Chin, Wave Propagation in Petroleum Engineering (1994)  |  |
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|      | P B.L. Steklyanov, et al, "Improving the Effectiveness of Drilling Tools," Series KhM-3, Oil Industry Machine Building, pub. Central Institute for Scientific and Technical Information and Technical and Economic Research on Chemical and Petroleum Machine Building, Tsintikhimneftemash, Moscow, 1991 (translated from Russian)                   |  |
|      | Q Energy Balanced Series Roller Cone Bits, <a href="http://www.halliburton.com/oil_gas/sd1380.jsp">www.halliburton.com/oil_gas/sd1380.jsp</a>   |  |
|      | R Ashmore, et al., Stratapax™ Computer Program, Sandia Laboratories, Albuquerque, NM , (76 pages)   |  |
|      | S F.A.S.T.™ Technology Brochure entitled "Tech Bits", Security/Dresser Industries, Sept. 17, 1993 (1 page)  |  |

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|   |  | Docket Number<br><b>074263.0209<br/>(SC-98-025 C3-E)</b> | Group Art Unit<br><b>3672</b> | Docket Number<br><b>074263.0209<br/>(SC-98-025 C3-E)</b> |  |

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| D |              |      |         |       |          |                            |
| E |              |      |         |       |          |                            |
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| <br><b>Information Disclosure Citation</b><br>in a <del>TRADEMARK</del> application | Application No. | Applicant(s)   |                  |  |
|   | 10/765,695      | Shilin Chen    |                  |  |
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